

Specification for anatomy and embryology course 2019/2020

A-Affiliation

1.	Relevant program	Bachelor of Veterinary Medical Sciences (BVMSc)
2.	Department offering the course	Anatomy and embryology

Date of specification approval: ministerial decree No. 1727 on 26/4/2017
(Approved in this template by the department council on 1/10/2019)

B-Basic information

1.	Course title	Anatomy and embryology
2.	Course code	209 (B) IV
3.	Level	2 nd year
4.	Semester	2 nd semester
5.	Total hours/week	4
6.	Lecture hours/week	2
7.	Practical hours/week	2

C-Professional Information

1- Course learning objectives

The course provides the principle information of anatomy the nervous and respiratory systems. This course provides the principle information of special embryology. This will enable students to gain skills for comparative anatomy of the different domestic animals and the nervous and respiratory systems

2- Intended learning outcomes of the course (ILOs):

a- Knowledge and understanding

After successful completion of the course the students should be able to:

- a1- Depict a concise knowledge about the anatomy of nervous system of different animal species
- a2- Identify a concise knowledge about the anatomy of respiratory system of different animal species
- a3- Describe the anatomical features and branches of nervous system of different domestic animals
- a4- Identify a comprehensive knowledge about the nervous and respiratory system and comparative anatomy among different domestic animals and special embryology
- a5- Mention the principles comparative anatomy of the skull and muscles of the head and neck
- a6- Identify a concise knowledge about special embryology

b- Intellectual skills

After successful completion of the course the students should be able to:

- b1- Illustrate the different features of nervous and respiratory systems in the animals species
- b2- Evaluate the skills of dissection of the head and neck
- b3- Illustrate the types of the skull in the different animal species
- b4- Inspect of the origin and insertion of different skeletal muscles of the head and neck
- b5- Determine the primordial origin of the different body systems and organs

c- Professional and practical skills

After successful completion of the course the students should be able to:

- c1- Measure the professional capability to dissect the head and neck
- c2- Measure the professional capability to identify the shape of the skulls of different domestic animals
- c.3- Evaluate the skills to compare between bones of the skull of different domestic animals
- c.4- Evaluate the skills to compare between organs of nervous and respiratory systems of different domestic animals
- c.5- Evaluate the skills to determine the primordial origin of the different body systems and organs

d- General and transferable skills

After successful completion of the course the students should have the following skills

- d1- Team working skills group dynamics to reach objectives
- d2- Search skills (internet and conduct a search in digital library)
- d3- Problem solving skills
- d4- Oral presentations skill
- d5- time management skills (Schedule tasks in order of importance)

3- Course contribution in the program ILOs:

Course ILOS	Program ILOS
A Knowledge and understanding	a ³
B Intellectual skills	b ¹
C Professional and practical skills	c ¹
D General and transferable skills	d ^{1,2}

3.1- Course contents:

Topic	Lecture hours	Practical hours
Respiratory System	20	-
Nervous System	10	-
Special Embryology	-	6
Skull Anatomy	-	4
Dissection of the Head and Neck	-	20

Total hours	30	30
The midterm and practical exams are included during the semester		

3.2- ILOs matrix:

Topic	A) Knowledge and understanding	B) Intellectual skills	C) Professional and practical skills	D) General and transferable skills
Respiratory System	a1, a3,a4	b1	c4	d1 to d5
Nervous System	a2, a3,a4	b1	c4	d1 to d5
Special Embryology	a6	b5	c5	d1 to d5
Skull Anatomy	a5	b2,b3	c2,c3	d1 to d5
Dissection of the Head and Neck	a5	b2, b4	c1	d1 to d5

4- Teaching and learning and assessment methods:

ILOs	Teaching and Learning method									assessment method				
	L	P&M	D&S	P	Ps	Bs	S	Rp	semester	midterm	oral	practical	written	
Knowledge and understanding	a1	x	x	x	x	0	x	x	0	x	x	x	0	x
	a2	x	x	x	x	0	x	x	x	x	x	x	0	x
	a3	x	x	x	x	0	x	x	x	x	x	x	0	x
	a4	x	x	x	x	0	x	x	x	x	0	x	0	x
	a5	x	x	x	x	0	x	x	0	x	0	x	0	x
	a6	x	x	x	x	0	x	x	0	x	0	x	0	x
Intellectual skills	b1	x	x	x	x	x	x	x	x	x	x	0	x	
	b2	x	x	x	x	x	x	0	x	x	x	0	x	
	b3	x	x	x	x	x	x	0	x	0	x	0	x	
	b4	x	x	x	x	x	x	0	x	0	x	0	x	
	b5	x	x	x	x	x	x	0	x	0	x	0	x	
Professional and practical skills	c1	0	x	x	x	x	x	0	x	0	x	x	0	
	c2	0	x	x	x	x	x	0	x	0	x	x	0	
	c3	0	x	x	x	x	x	0	x	0	x	x	0	
	c4	0	x	x	x	x	x	0	x	0	x	x	0	
General skills	d1	x	x	0	x	x	0	0	x	x	0	x	0	0
	d2	0	x	x	0	0	x	0	0	x	0	x	0	x
	d3	x	x	x	x	x	x	0	x	0	x	x	x	x
	d4	x	x	0	0	0	0	0	x	0	0	x	0	0
	d5	x	0	0	0	0	0	0	x	0	x	0	x	x

L :Lecture, P&M: Presentations & Movies, D&S: Discussions & Seminars P: Practical Ps: Problem solving, Bs: Brain storming S: simulation Rp: role play

5- Assessment timing and grading:

Assessment method	timing	grade
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Mid-term exam and semester work	6 th week	15
Practical exam	14 th week	20
oral exam	End of semester	15
Written exam	End of semester	50
total		100

6- List of references

6.1- Course notes: department note

6.2- Essential books (text books)

- Klaus-Dieter Budras (2011) Bovine Anatomy
- G. E. Abdelhakim (2009) Atlas Anatomy of The Horse
- Poul Hyttel (2010) Domestic Animal Embryology
- Kenneth V.Kardong (2006) Comparative Vertebrate Anatomy

6.3- Recommended books

- Course note
- Poul Hyttel (2010) Domestic Animal Embryology
- Kenneth V.Kardong (2006) Comparative Vertebrate Anatomy.

6.4- Periodicals, Web sites, . . . etc

- Acta Anatomica.
- Equine Veterinary journal
- American Journal of Veterinary Anatomy
- American Journal of Veterinary Research
- Veterinary Record
- www.ekb.eg

7- Facilities required for teaching and learning

- Data show
- White board
- Anatomy laboratory
- Phantoms and models for different organs and bones
- Carcasses for dissection and demonstration
- Anatomy museum or anatomy skill lab.

Course coordinator: Dr. Hatem Bahgaat Houssainy

Head of department Dr. Hatem Bahgaat Houssainy

Signature.....

Date. 1/10/2019